

# TK™ -34XT

TK™-34XT is the first abrasion resistant drill pipe coating specifically formulated to provide improved wear resistance in drilling environments. A durability improvement of 3 times has been realized over standard drill pipe coatings. In accomplishing this goal, TK-34XT does not sacrifice temperature resistance, chemical resistance, flexibility, or resistance to impact from slips and wireline tools. (All of which are essential components that are required due to the stresses that the coated drill string will encounter during drilling operations). Like standard TK-34 coating, TK-34XT provides corrosion resistance in general oilfield environments over a wide pH range and generates documented flow improvement characteristics. This effect can be most realized at the drill bit with improved penetration rates.

## Specifications

Type	Modified Epoxy Phenolic (Liquid)
Color	Blue
Temperature	Withstands all temperatures commonly encountered during drilling, provided circulation is maintained.
Pressure	To yield strength of pipe
Applied Thickness	5-9 mils (127-229 µm)
Primary Applications	Drill pipe coating for extremely abrasive environments
Primary Service	Natural and synthetic drilling fluids

### Stimulation Fluids:

When stimulation fluids are charged through coated tubing, there is generally little effect if the fluids are flushed completely through the tubular. However, some organic acids, caustic and solvents may have a detrimental effect on certain organic coating systems and should be evaluated prior to use. If stimulation fluids are left in the tubing, they can reach formation temperature and cause accelerated attack on the coating. A Tuboscope representative should be consulted when stimulation is contemplated.

### Sample of Testing Capabilities:

#### Thermal Analysis

- Differential Scanning Calorimeter (DSC)
- Thermomechanical Analysis (TMA)
- Thermogravimetric Analysis (TGA)

#### Spectroscopy

- Fourier Transform Infrared Spectrophotometer
- Electrochemical Impedance Spectroscopy (EIS)
- Contact Angle

#### Chromatography

- Gel Permeation Chromatograph (SEC)
- High Performance Liquid Chromatograph
- Gas Chromatograph

#### Additional Physical/Chemical Testing

- High Pressure Autoclaves
- Microscope Analysis
- Immersion Testing
- Flow Loop Analysis

#### Product Development

- Lab Compounding Capabilities

